

## Datasheet

### SPN monoclonal antibody, clone MEM-59 (FITC)

**Catalog Number:** MAB4551

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against native SPN.

**Clone Name:** MEM-59

**Immunogen:** Native purified SPN from human T lymphocytes.

**Host:** Mouse

**Theoretical MW (kDa):** 95-135

**Reactivity:** Human

**Applications:** Flow Cyt  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Specificity:** This antibody recognizes neuraminidase-sensitive epitope on CD43 (Leukosialin), a 95-135 kDa type I transmembrane glycoprotein (mucin-type) which is involved in lymphocyte activation.

**Form:** Liquid

**Conjugation:** FITC

**Isotype:** IgG1

**Recommend Usage:** Flow Cytometry (20  $\mu$ l in human blood cells 100  $\mu$ l in whole blood or  $10^6$  cells in a suspension)

The optimal working dilution should be determined by the end user.

**Storage Buffer:** In PBS (0.2% BSA, 0.09% sodium azide)

**Storage Instruction:** Store in the dark at 4°C. Do not

freeze.

Avoid prolonged exposure to light.

Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 6693

**Gene Symbol:** SPN

**Gene Alias:** CD43, GPL115, LSN

**Gene Summary:** Sialophorin (leukosialin) is a major sialoglycoprotein on the surface of human T lymphocytes, monocytes, granulocytes, and some B lymphocytes, which appears to be important for immune function and may be part of a physiologic ligand-receptor complex involved in T-cell activation.[supplied by OMIM]

#### References:

1. Arf and Rho GAP adapter protein ARAP1 participates in the mobilization of TRAIL-R1/DR4 to the plasma membrane. Simova S, Klima M, Cermak L, Sourkova V, Andera L. Apoptosis. 2008 Mar;13(3):423-36.
2. Molecular mechanisms involved in CD43-mediated apoptosis of TF-1 cells. Roles of transcription Daxx expression, and adhesion molecules. Cermak L, Simova S, Pintzas A, Horejsi V, Andera L. J Biol Chem. 2002 Mar 8;277(10):7955-61. Epub 2001 Dec 31.
3. MEM-59 monoclonal antibody detects a CD43 epitope involved in lymphocyte activation. Alvarado M, Klassen C, Cerny J, Horejsi V, Schmidt RE. Eur J Immunol. 1995 Apr;25(4):1051-5.